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Division Director

# State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

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October 2, 1989

TO:

Wayne Hedberg, Permit Lead

FROM:

Scott Johnson, Reclamation Engineer

RE:

Revised Reclamation Estimate for North Lily Mining Company, Tintic Project,

M/023/007, Juab County, Utah

I have completed my review of the expansion amendment for the Tintic Project. The engineering work appears to be technically sound. Assuming the tailings pile north of the plant facilities is regraded and ready to seed, the adjusted reclamation estimate is \$122,000 in 1994 dollars.

North Lily initiated a deposit on March 15, 1988 in First Security Bank for the amount of \$92,522.67. As of today, this account has a value of \$104,813.09. This account matures on March 15, 1991 with a value exceeding \$115,000.

Since the operator has initiated reclamation by restoring the tailings pad, I suggest we leave the surety alone. If the revegetation is successful by the 1991 deposit maturity date, the value of the deposit will be in line with the 1994 reclamation cost (\$122,000 minus \$6,000).

jb

cc: Lowell Braxton

Holland Shepherd

MN17/74

### Reclamation Estimate for North Lily Mining Company Tintic Project Juab County M/023/007

#### Prepared By Utah State Division of Oil, Gas and Mining October 2, 1989

Description	Quantity	Unit	\$/Unit	Cost (\$)
Plant Site Reclamation Demolish and Dispose of Buildings Regrade Building Site Decommission Heap Leach Pad	1.0 13.0	Lump Sum Acres Acres	300 500	5,000 300 6,500
Regrade Heap Leach Pad Regrade Solution Ponds Apply Topsoil Revegetate	120,000 12,000 29,400 21.0	Acres	0.20 0.20 1.25 447	24,000 2,400 36,750 9,390
Subtotal				84,340
North Tailings Dump Reclamation Revegetate (a)	11.1	Acres	447	4,960
Mammoth Mine Dump Reclamation Grade for Uniformity Revegetate	15.0 15.0	Acres Acres	300 447	4,500 6,710
Subtotal				11,210
Totals Add Contingency (10%)				100,510 10,050
TOTAL RECLAMATION COST (1989 Dollars)				110,560
TOTAL RECLAMATION COST (1994 Dollars) @	1.93% Ann	ual Inflation		122,000

Notes: (a) This area has been depleted of ore. The reclamation earthwork was completed in 1989. The revegetation remains and will commence during the fall of 1989.

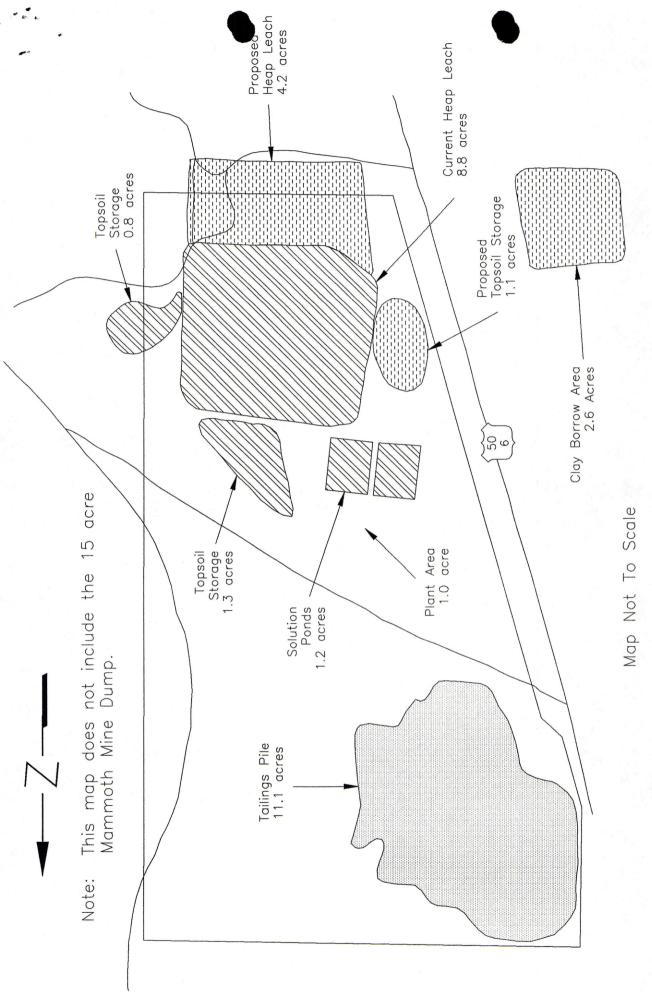
This estimate includes the reclamation costs required for the expansion of the heap leach pad.

## Reclamation Estimate for North Lily Mining Company Tintic Project Juab County M/023/007

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#### **Cost Parameters Used**

D-8 Dozer (0&0) 988B Wheel Loader (0&0)	160 165	\$/hour \$/hour		
Labor Only Farm Tractor (0&0) Speed Width of Pass	24 67 4 6	\$/hour \$/hour mph feet		
Revegetation Cost per Acre	Quantity — ————	Unit	\$/Unit	Total Cost (\$)
Bare Costs Fertilizer (18-46-0) Seed Mix Native Hay Mulch Seed Mix (drilled) Subtotal	100 20 2 0.5		0.25 9 50 24	25 180 100 12
Application Costs Native Hay Mulch (spread by hand) Native Hay Mulch (disc into ground) Fertilizer (broadcast by hand) Seed Mix (drilled) Scarify (tractor with chain)	3.0 0.3 0.5 0.5	Hours	24 67 24 0 67	317 72 23 12 0 23
Subtotal				130
Total Revegetation Cost per Acre				447



Map Compiled

Proposed Expansion (except Mammoth) Reclaimed Area (except vegetation)

Existing Disturbance

North Lily Mining Company M/023/007 County, Utah Juab



9-29-89

